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What is claimed is:

- A medical device which includes a component formed from an alloy which contains at least about 40% Ni by weight, the device having a 10 nm deep surface region of containing not more than about 5% Ni by weight.
- 2. A device as claimed in claim 1, in which the alloy in the said surface region contains not more than about 3% Ni.
- A device as claimed in claim 1, in which the alloy has been subjected to polishing and oxidizing treatment on said surface region.
- A device as claimed in claim 3, in which the said polishing treatment comprises an electrochemical or mechanical treatment.
- 5. A device as claimed in claim 3, in which the said oxidizing treatment comprises at the steps of exposure to superheated steam, a chemical treatment and an electrochemical treatment.
- 6. A device as claimed in claim 1, in which the alloy is a Ni-Ti based alloy.
- 7. The device of claim 5, in which the said electrochemical oxidizing treatment comprises anodizing in a acidic, neutral or basic solution.
- A device as claimed in claim 1, in which the device has been treated so that it exhibits superelastic properties.

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- 9. A device as claimed in claim 1, in which the alloy contains at least about 48% Ni by weight.
- 10. A device as claimed in claim 9, in which the alloy contains at least about 50% Ni by weight.
- 11. A. device as claimed in claim 1, in the form of a stent.
- 12. A method of making a medical device comprising a component formed from an alloy which contains nickel, which includes the step of exposing the component in a surface region thereof to a treatment which causes the Ni content of the alloy in that region to be reduced compared with that in the remainder of the component.
- 13. The method of claim 12 wherein said device is a stent.
- 14. A method as claimed in claim 12, in which the component is exposed to superheated steam.
- 15. A method as claimed in claim 14, in which the component is exposed to steam for at least about 3 hours.
- 16. A method as claimed in claim 14, in which the steam is heated to at least about 120 °C.

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- 17. A method as claimed in claim 13, in which the said treatment comprises a chemical treatment, in which the device is immersed in an acidic, neutral or basic chemical solution bath.
- 18. A method as claimed in claim 17, in which the said treatment comprises a chemical treatment, in which the device is immersed for at least about 0.5 hour.
- 19. A method as claimed in claim 12, in which the said treatment comprises an electrochemical treatment, in which the device is included in an electrochemical system as an anode in a solution bath with current running therethrough.